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09/941,879	08/29/2001	Taisei Hirayama	01473 /LH	7842	
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FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 767 THIRD AVENUE 25TH FLOOR			EXAMINER		
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NEW YORK,	NY 10017-2023		ART UNIT	PAPER NUMBER	
			2829		
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Please find below and/or attached an Office communication concerning this application or proceeding.

22

Offic Action Summary Examiner						
## Defice Action Summary Examiner Paresh Pate 2229		Application No.	Applicant(s)			
Paresh Patel Patel Paresh Patel Pa	Offic Assista Summanu	<u></u>	HIRAYAMA ET AL.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Ectivation of time may be addressed of this communication. Ectivation of time may be addressed of this communication. Entries of time may be addressed of this communication. Entries of time may be addressed of this communication. I NO period for reply is spotlate under the provision of the time to the maining date of his communication. Failure to reply within the set or extended period for reply will be statisticly retirement with (5) days will be considered timely. Failure to reply within the set or extended period for reply will be statisticly and the post (6) (6) MONTH of the maining date of his communication. Failure to reply within the set or extended period for reply will be statisticly and patient time adjustment. Does 37 CFT 8 1704(s). Status 1) ■ Responsive to communication(s) filled on 29 September 2001. This action is FINAL. 20 ■ This action is final. 3) ■ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ■ Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to restriction and/or election requirement. Application Papers 9) □ The drawing(s) filed on	Ome Action Summary	Examiner	Art Unit			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. • Extraction of time may be available under the provisions of 37 CFR 1.15(a), in no event, however, may a raply be timely tilled • Extraction of time may be available under the provisions of 37 CFR 1.15(a), in no event, however, may a raply be timely tilled • It to period to really specified above, the maximum statutory provid will apply and will lexice SIX (6) MOSTNIS from the maining date of this communication of the provided above. The maximum statutory provid will apply and will lexice SIX (6) MOSTNIS from the maining date of this communication. • Any reply recently the Other case the first her more maining date of this communication, even if timely filed, may reduce any canned patient term adjustment. See 37 CFR 1.764(b). Status 1) □ Responsive to communication(s) filed on 29 September 2001. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merrits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) □ 1.21 is/are pending in the application. 4a) □ Claim(s) □ 1.21 is/are rejected. 5) □ Claim(s) □ 1.21 is/are rejected. 7) □ Claim(s) □ 1.23 is/are objected to. 8) □ Claim(s) □ 1.23 is/are objected to. 8) □ Claim(s) □ 1.23 is/are objected to. 9) □ The drawing(s) filed on □ 1.15 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The drawing(s) filed on □ 1.15 is/are: a) □ accepted or b) □ objected to by the Examiner. 10 □ The drawing(s) filed on □ 1.15 is/are: a) □ accepted or b) □ objected to by the Examiner. 11 □ proposed drawing correction filed on □ 1.15 is/are: a) □ accepted or b) □ objected to by the Examiner. 12 □ The proposed drawing correction filed on □ 1.15 is/are: a) □ accepted or b) □ objected to by the Examiner. 13 □ Acknowledgment is made of a cl	The MAN INO DATE of this communication and	l	<u> </u>			
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1) Notice of References Cited (RTO 803) A) Intention Cumman (RTO 413) Paper No(s)	· 					
2) Notice of Paterial Process Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152) Notice of Informal Patent Application (PTO-152) Other:		5) 🔲 Notice of Informal				

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Art Unit: 2829

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-3, 7-8 and 11-13 are rejected under 35 U.S.C. 102(a) as being anticipated by Ikeya et al. (US 6251696).

Regarding claim 1, Ikeya et al. (hereafter Ikeya) in fig. 1-8 discloses: a sample assembly for a thermoelectric analyzer comprising:

- (a) an electrically insulating substrate [18];
- (b) a pair of junction electrode layers [Z5, Z6] formed on said substrate;
- (c) a sample [11] fixed to said substrate;
- (d) an adhesive layer [15 and 19 or 20] disposed between said sample and said substrate and made of a material selected from a group consisting of indium and gold-tin alloy [lines 1-15 of column 6];
- (e) a pair of electrode layers [Z1, Z2] formed on a same plane of said sample;
- (f) two electrically-conductive wire [14 of Z1 and 14 of Z2 in fig. 6] means: one electrically-conductive wire means connecting one of said electrode layers with one of said junction electrode layers, and another electrically-conductive wire means

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connecting the other of said electrode layers with the other of said junction electrode layers.

Regarding claim 2, Ikeya discloses: a sample assembly according to claim 1, wherein said adhesive layer is made of indium [20].

Regarding claims 3 and 8, Ikeya discloses: a sample assembly according to claim 2, wherein said substrate is made of a material selected from a group consisting of aluminum nitride, boron nitride, beryllium oxide and aluminum oxide [ceramic 18].

Regarding claim 7, Ikeya discloses: a sample assembly according to claim 1, said adhesive layer is made of gold-tin alloy [lines 1-15 of column 6].

Regarding claim 11, Ikeya discloses: a sample assembly according to claim 4, wherein said pair of electrode layers, said pair of junction electrode layers and said wire means are arranged mirror-symmetrical with respect to a center of said sample [see plan view of fig. 1, 3 and 7].

Regarding claim 12, Ikeya discloses: a sample assembly according to claim 5, wherein said sample is compound semiconductor [11].

Regarding claim 13, Ikeya discloses: a sample assembly according to claim 1, wherein said sample has a plane size of 5 mm X 5 mm or less [lines 22-29 of column 6].

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikeya as applied to claims 3, 2 and 1 above.

Regarding claims 4 and 10, Ikeya discloses: a sample assembly according to claim 3, wherein each of said electrode layers and said junction electrode layers is made of a multilayer including a top layer which is a gold layer [lines 43-55 of column 5]. Ikeya do not disclose said wire means are gold (Au) wires. Rather, Ikeya discloses that said wire means are aluminum [14]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use Au instead AI, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Regarding claim 5, Ikeya discloses: a sample assembly according to claim 4, wherein said pair of electrode layers, said pair of junction electrode layers and said wire means are arranged mirror-symmetrical with respect to a center of said sample [see plan view of fig. 1, 3 and 7].

Regarding claim 6, Ikeya discloses: a sample assembly according to claim 5, wherein said sample is compound semiconductor [11].

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Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ikeya as applied to claim 1 above, and further in view of Takahashi et al. (US 5126813).

Regarding claim 9, Ikeya discloses the claimed invention except for said sample assembly according to claim 1, wherein said sample assembly is adapted to be supported by two support rods which serve also as conductors for an electric circuit. Takahashi et al. (hereafter Takahashi) discloses sample assembly [fig. 1] is adapted to be supported by two support rods [7 with 100] which serve also as conductors for an electric circuit. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the support of Takahashi with the sample assembly of Ikeya, in order to support the chip while transmitting a data from the chip. Ikeya and Takahashi do not discloses gold washers are inserted between said support rods and said junction electrode layers. Use of gold washer is design choice because it is well known in the art that gold is a good conductor. Ikeya also discloses that junction electrode layers has gold layer on the top for electrical connection. Therefor, it would have been obvious to use gold washer for good electrical contact between two electrodes when one contact is used as support for said substrate.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paresh Patel whose telephone number is 703-306-5859. The examiner can normally be reached on M-F (8:30 to 4:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 703-308-1233. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Paresh Patel March 22, 2003

KAMAND CUNEO

SUPERVISORY PATENT EXAMINER
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